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I- INTRODUCTION

Vistachrom can inform the user on a list of errors which can occur. All errors are registered into a folder situated into :

- D:Application / Vistachrom / #XXXXXXX/ Error (Windows XP)
- E:Data/Vistachrom/#XXXXXXX/Error (Windows embedded)

You can also see errors which occurred directly from the Vistachrom Synoptic if you click on **“Error”** icon (see Figure 1) :

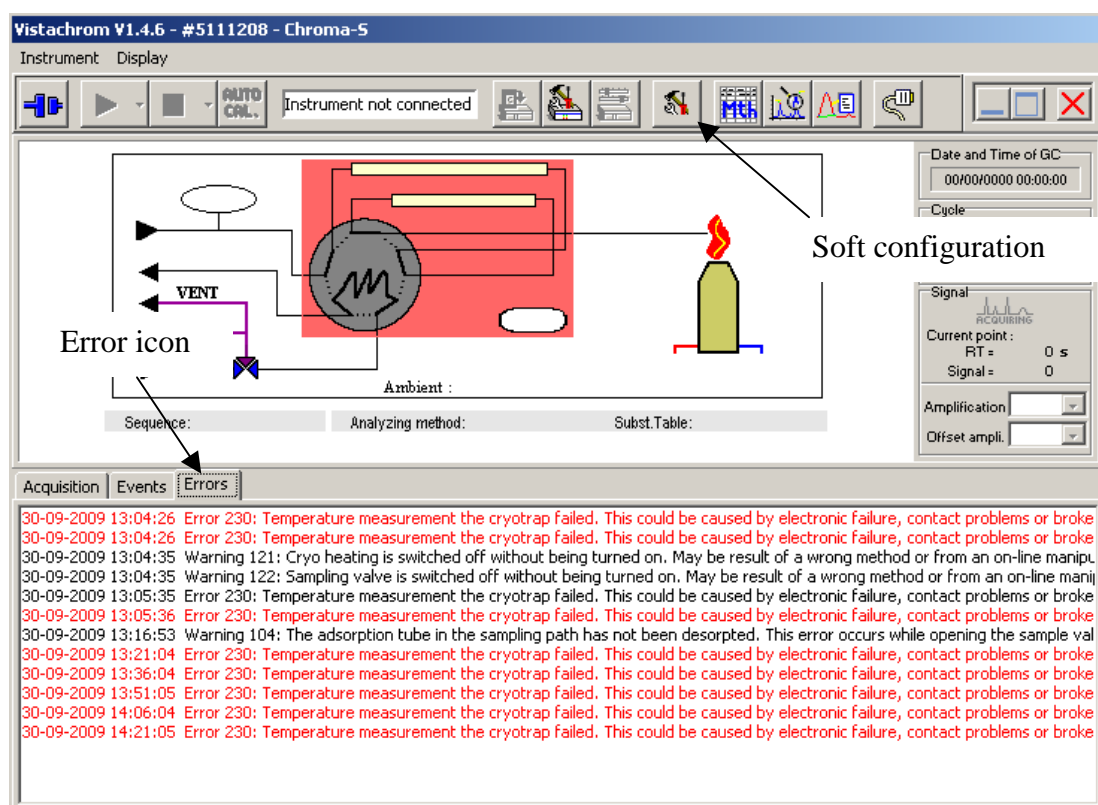


Figure 1

The most important errors have numbers over than 200 (written in red). Some of them are critical errors and it's better to stop automatically the analyser if it occurs (like error 227 or 231 which are often **“Stop Errors”**).

Nonfatal errors (error numbers within 100) generally do not interfere with the process of the instrument. The device keeps going on with the program (**“Valid Errors”**)

You can see all errors and it status (Valid or Stop errors) if you click on **“Soft configuration”** icon and select **“Errors”** (see Figure 2).

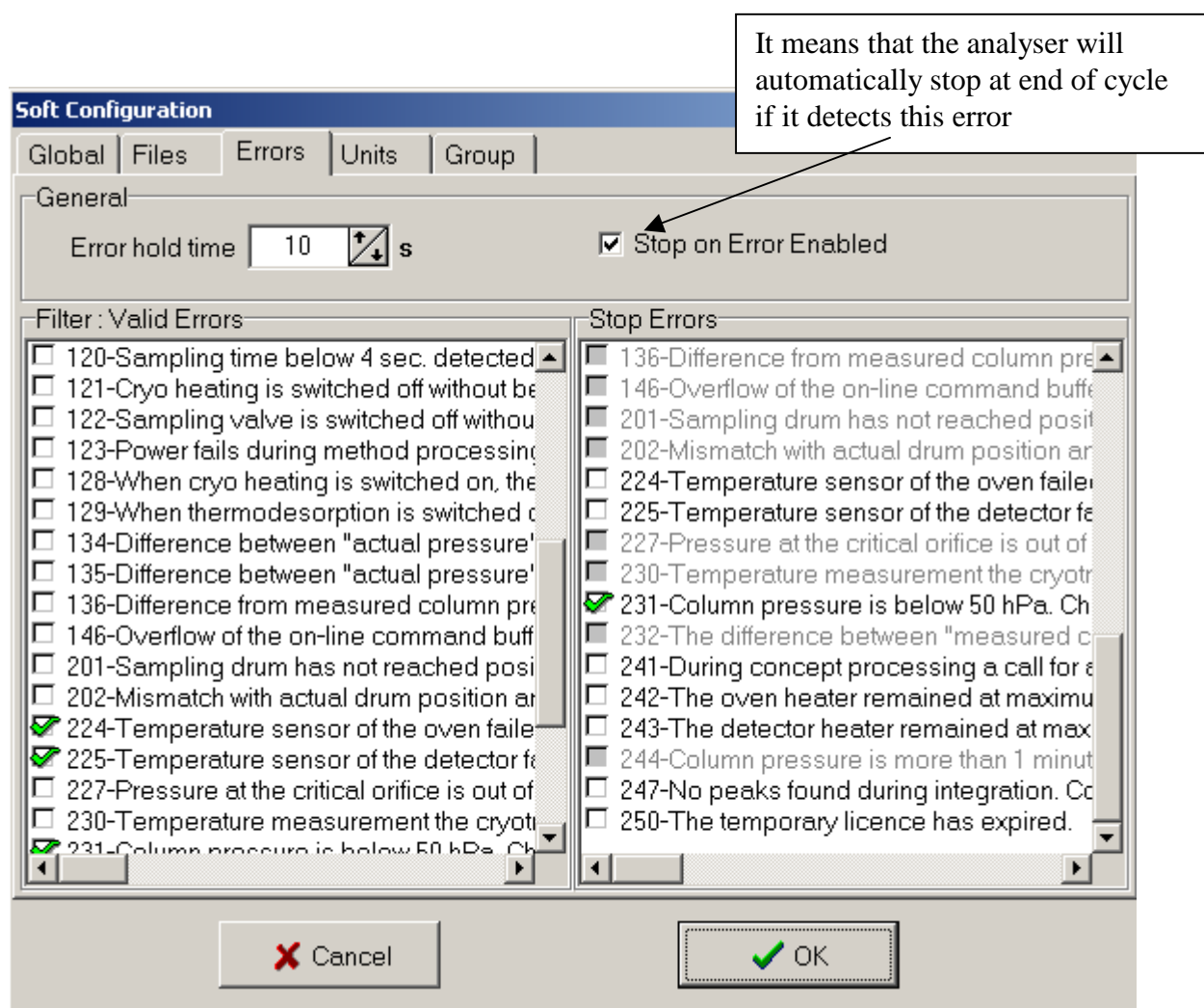


Figure 2

II- ERROR LIST

N°	LED	Cause	Consequences
101	yellow	A frame received with an incorrect size	The frame is ignored.
104	yellow	The adsorption tube in the sampling path has not been desorpted. This error occurs while opening the sample valve and could rise from wrong method, manual turned drum error 202.	Error message in PKS data protocol. Sample tube could be overload due to twice the amount of substance.
105	yellow	When the command "cryotrap cooling" was sent, the cryo hot was still on. Wrong method or on-line manipulation errors.	The command cryo cooling is ignored.
106	yellow	When the command "cryotrap hot" was sent, the cryo cooling was still on. Wrong method or on-line manipulation errors.	The command cryo cooling is ignored.
107	yellow	RS 232 I/O. Input buffer overflow.	Data transfer is repeated up to three times.
108	yellow	RS 232 I/O. Protocol violation may be caused to interruption during data transmission or cable malfunction.	Data transfer is repeated up to three times. Communication drivers try to synchronize again.
109	yellow	Command with wrong parameters was detected during receive. Communication device tries to synchronize on next correct command.	Command with wrong parameters will be ignored.
110	yellow	RS 232 I/O. Checksum error.	Data transfer is repeated up to three times.
111	yellow	RS 232 I/O. Frame error detected.	Data transfer is repeated up to three times.
112	yellow	RS 232 I/O. Parity error detected.	Data transfer is repeated up to three times.
113	yellow	RS 232 I/O. Data transmitted to receiver could not be processed until the next data were transmitted.	Data transfer is repeated up to three times.
114	yellow	During on-line mode, ring buffer for chromatography data is overflow. Could be caused by bad transmission line due to many repetitions of the data to be transmitted.	Loss of chromatogram data.
115	yellow	Ring buffer for chromatography data is too small to make a correct processing. Caused by too many peaks (too low threshold) or too long virtual baseline (steps in baseline).	Incorrect calculation respect of total and specific peaks. No indication of this type of error in analysis report.
119	yellow	Settings of the drum motor while sample valve or/and desorption still was switched on. Wrong method or on-line manipulation error.	Motor on will not start turning. Sample drum remains in previous position. Will cause error n° 104 in the next cycles.
120	yellow	Sampling time below 1 sec. detected while desorbing a sample tube.	No peaks may be detected (blank tube).
121	yellow	Cryoheating is switched off without being turned on. May be result of a wrong method or from an on-line manipulation.	
122	yellow	Sampling valve is switched off without being turned on. May be result of a wrong method or from an on-line manipulation.	
123	yellow	Power fails during method processing. To generate this error, the power fail has to be shorter than a cycle. When the power failure is longer than cycle time, the instrument remains in the standby mode.	Running method is aborted with data loss. No report is generated. The processing is continued in the normal time sequence with next method.
128	yellow	When cryo heating is switched on, the oven has not yet reached its initial temperature. This could be the cause of the "low initial temperature" setting, the "hot room temperature" or the "fan fail".	Retention times will not fit with set values, compounds will be not found or wrong identified.

129	yellow	When thermodesorption is switched on, the cryotrap has not yet reached its “cold temperature” initial settings cold temperature. This could be the cause of the low set temperature within the short cooling time or CO2 pressure is too low (cylinder empty).	Low boiling compounds (below C6) will be lost or found in to low concentrations.
134	yellow	Difference between “actual pressure” and “pressure settings” of the FID H2 pressure regulator is greater than 2 %. Check for leaks and the H2 pressure at the inlet. A wrong calibration can result in this error. This error is tested at the beginning of a method.	Could result in wrong FID response factors for compounds
135	yellow	Difference between “actual pressure” and “pressure settings” of the FID air pressure regulator is greater than 2 %. Check for leaks and air pressure at the inlet. A wrong calibration can result in this error. This error is tested at the beginning of a method.	Could result in wrong FID response factors for compounds.
136	yellow	Difference between “measured column pressure” and “pressure settings” is greater than 20 hPa. Check for leak in sample drum, cryotrap or fittings. Check H2 pressure at the inlet and the setting of the column pressure. This error is tested at the beginning of a method.	Instable retention times with no fit with set values, compounds will be not found or wrong identified.
140	yellow	Standard factor parameter is equal to zero	Value will be ignored. No auto-calibration
141	yellow	Standard sampling volume is equal to zero	Value will be ignored. No auto-calibration.
142	yellow	Standard sensitivity value is out of range	Value will be ignored. No auto-calibration.
143	yellow	Standard sensitivity means is out of range	Value will be ignored. No auto-calibration
146	yellow	Overflow of the on-line command buffer.	Commands will be ignored.
201	red	Sampling drum has not reached position or has reached it too late.	Sampling drum not adjusted. WARNING hydrogen could leak into the instrument with burning risk.
202	red	Mismatch with actual drum position and memorized position (position 1 detected).	New position is taken as new starting point. Causes following errors due to wrong initial sample position.
224	red	Temperature sensor of the oven failed.	Oven is cooled. No powering of the oven is possible until the sensor fail is repaired.
225	red	Temperature sensor of the detector failed.	FID is cooled. No powering of the FID is possible until the sensor fail is repaired.
227	red	Pressure at the critical orifice is out of range.	Could be cause by plugging the orifice or due to leak in the sampling path.
230	red	Temperature measurement the cryotrap failed. This could be caused by electronic failure, contact problems or broken heater. Also a wrong calibration can result in this error. This error is tested at the beginning of a method.	
231	red	Column pressure is below 50 hPa. Check for leak in sample drum, cryotrap or fittings. Check carrier pressure at the inlet and the setting of the column pressure. This error is tested at the beginning of a method.	Method is immediately aborted, instrument remains in stand by.
232	red	The difference between “measured column pressure” and the “regulator pressure” is greater than 50 hPa. Check for leak in sample drum, cryotrap or fittings. Check carrier pressure at the inlet and the setting of the column pressure. This error is tested at the beginning of a method.	Method is immediately aborted, instrument remains in stand by. VOC instrument only.
241	red	During concept processing a call for a not available method was sent.	Abort of the measurement. Instrument remains in stand by.

242	red	Oven temperature is greater than 1 minute out of range. Check for correct working of the temperature sensor.	Oven temperature is set to default low temperature (30°C).
243	red	FID temperature is greater than 1 minute out of range. Check for correct working of the temperature sensor.	FID temperature is set to default low temperature (30°C).
244	red	Column pressure is more than 1 minute out of range. Check for leaks in sample drum, cryotrap or fittings. Check H2 pressure at the inlet and the setting of the column pressure.	Column pressure is set minimum value. (< 20 hPa)
247	red	No peaks found during integration. Could be caused by loss of detector signal due to lack of air, no flame, column crack or wrong offset or amplification setting.	No peaks in report.